

Mobility Exchange® MX-200R

Mobility Exchange MX-200R Intelligent WLAN Controller for data center or wiring closet deployment. Supports up to 192 access points.



The Mobility Exchange (MX®) family of intelligent WLAN controllers provide the platform for Trapeze Smart Mobile® wireless networks.

Mobility Exchange MX-200R

The MX-200R is designed for data center, or distributed wiring closet installations, and enables seamless and secure deployment of enterprise class wireless networks over any existing L2/L3 network without disruption.

The MX-200R supports up to 192 access points. Licenses come in increments of 32 supported MPs for optimum price performance throughout the growth of your wireless LAN. It also features 2 Gigabit Ethernet ports which accept Small-Form Pluggable (SFP) optics for 1000BASE-SX/LX fiber connectivity, or 1000BASE-T unshielded twisted-pair (UTP) environments, and comes with a redundant power supply as standard.

Operating in conjunction with Trapeze Mobility Point® (MP®) access points, and Mobility System Software™(MSS™), MX controllers can offload policy enforcement and data forwarding to the MPs, resulting in optimized traffic flow, radically reduced latency, and massive scalability.

The MX-200R combines L2 Ethernet switching, stateful per user and per service firewalls, wireless intrusion protection, 802.10 trunking and per VLAN spanning tree (PVST+), complete wired to wireless quality of service (QoS), and automated RF management. Clusters of MXs called a Mobility Domain™ provide seamless roaming, intrusion protection and RF management over the largest single site wireless LAN deployments. A Network Domain™ interconnects and distributes Mobility Domains to enable identity-based networking across wide geographic regions.

MX controllers can be configured as a virtual controller cluster to provide many-to-many redundancy, without needing expensive hot standby controllers. This enables NonStop Wireless availability for all sessions, even voice calls in the event that a controller goes offline for any reason.

The MX-200R uses the same Mobility System Software as all other Trapeze MX controllers. For more information about the security and networking capabilities of the MX-200R, please read the Mobility System Software data sheet.



Key Features

Scalability and Reliability	
Number of managed Mobility Point access points	From 32 to 192 depending upon the licensing options ordered
Platform Reliability	Redundant Power Module as standard
Network Reliability	EtherChannel™ load-shared, redundant links
	Spanning tree and per-VLAN spanning tree (PVST+)
	Resilient network attachment via any MX port
	N:1 and N:N redundant MX capabilities
Security	
Authentication	Supports complete local AAA authentication, including 802.1x, as primary or backup to a centralized AAA server
	Supports multiple AAA server groups and can load share across multiple AAA servers or within a server group
	Generates and manages X.509 digital certificates
	 Assigns and enforces per-user authorization policies that are managed centrally from the AAA back-end
	 Authorizations include virtual private group membership, personal firewall filters, time-of-day/day-of-week access, encryption type, and location-specific policies
	IEEE 802.1x with multiple EAP types (TLS, PEAP/MSCHAP, TTLS)
	• WebAAA, MAC, Open
	Wi-Fi WPA2 Enterprise certified
Encryption Key Management	Encryption distributed in Mobility Point access points
	MX generates master and session keys
	Provides key management for each encryption technique
Management and Control	
Management access	Command Line Interface (Console serial port, telnet, SSHv2)
	WebView web access (https)
	• SSL, XML (to RingMaster®)
	• SNMP v1, v2c, v3
	Syslog support for system monitoring
	Detailed audit logging for change control
	Remote packet capture ability for advanced troubleshooting
RF Management	Automated MP Power/channel auto-tuning
	Dynamic Frequency Selection compliant (DFS3)
User management and statistics	Detailed per user session RF accounting statistics management
	 Tracks the location, roaming history, virtual private group, network addresses, state, activity, errors, usage and other attributes by user name, session, VLAN, user group or other
	Provides per user audit trail and charge-back capability through the accounting component of AAA
MP management and control	Configures and controls MP access points; controls third party APs
	Boot, configuration and management model compliant with the IETF CAPWAP architecture
	• MX is categorized as an access controller (AC) that supports direct, switched, and routed connections
	Enable Data forwarding in MX or in MP with Smart Mobile technology
	Multiple MXs provide resilient control



Specifications

Hardware Specifications	
Dimensions (W x D x H)	• 17.4 in x 12.1 in x 1.7 in
	• (44.2 cm x 30.7 cm x 4.3 cm)
Weight	• 10.0 lbs (4.5 kg) with one power supply
	• 11.0 lbs (5.0 kg) with 2 power supplies
Interfaces	2 Gigabit Ethernet Small Form-Factor Pluggable (SFP) ports
Environmental	Operating temperature: -10°C to 50°C
	Storage temperature: -20°C to 70°C
	Humidity: 10% - 90% (non-condensing)
Power	• 100-240 VAC 50-60 Hz
	• 50 watts power supply (x 2 in MX-200R)
	Max Amperage draw: 1.0 Arms at 120 Vrms, 0.5 Arms at 230 Vrms
Standards Requirements	
Regulatory Safety	• UL 609501-1, CB IEC 609501-1, EN 60950-1
EMI/EMC	FCC PART 15 Class A
	• ICES 003
	• VCCI
	• EN 55022, EN 55024
IEEE Standards	802.1x Port Based Network Access Control
	802.3i 10BASE-T Ethernet
	802.3u 100BASE-T Fast Ethernet
	802.3ab 1000 BASE-TX Gigabit Ethernet
	802.11 a/b/g/n, 802.11d, 802.11e, 802.11h, 802.11i
	802.1D Spanning Tree
	802.1Q VLAN tagging
	802.3ad (static config)

Ordering Information

MX-200R-xx	MX-200 with 2 x GigE (SFP) with dual integrated PSU. Includes 32 AP license
MX-2xx-U32	32 AP license upgrade for MX-200R or MX-216R
SFP-SX	850nm SFP transceiver
SFP-LX	1300nm SFP transceiver
SFP-UTP	1000BASE-T SFP transceiver, RJ-45 connector

• xx = NA - North America, EU - Europe, UK - United Kingdom, JP - Japan, AU - Australia and China